

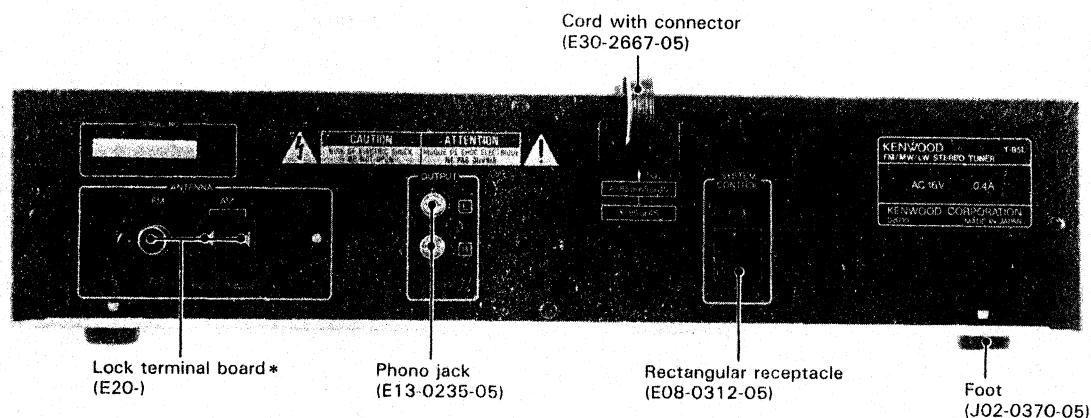
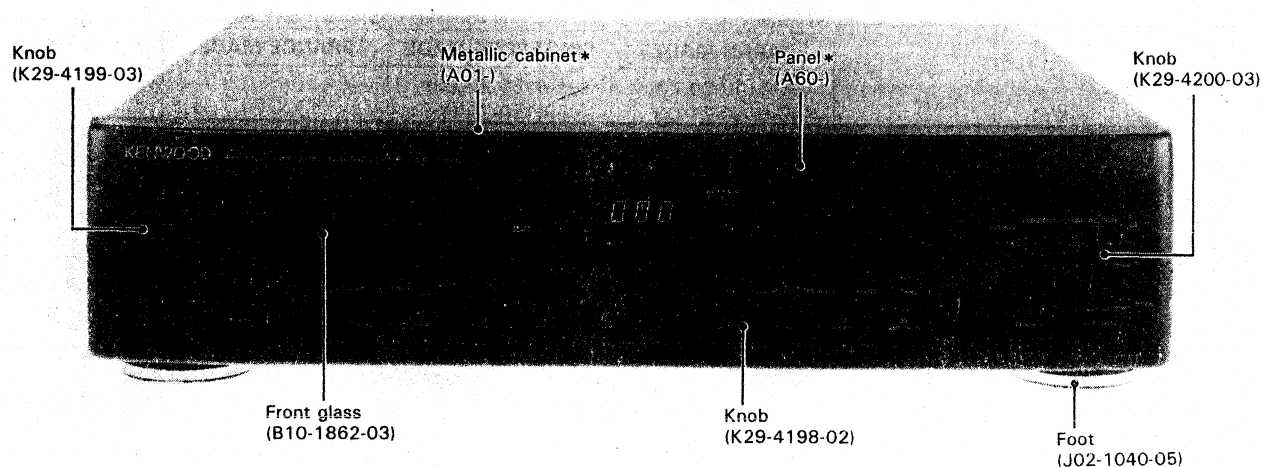
FM/MW/LW STEREO SYNTHESIZER TUNER

# T-85/85L

## SERVICE MANUAL

# KENWOOD

©1991-7 PRINTED IN JAPAN  
B51-4346-00(T)1816



T-85 and T-85L don't have a power supply transformer. Use A-45/65/85/ or RM-90PS power supply to supply power. If neither is available, adjust to operate as instructed on page 8.

When turning the power on, short the connector pin of CN201 (X05-B/2).

\* Refer to Parts List on page 25.  
Photo is T-85L.

# T-85/85L

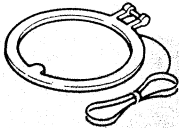

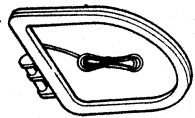


## CONTENTS/ACCESSORIES

ACCESSORIES .....	2	SCHEMATIC DIAGRAM (T-85) .....	12
BLOCK DIAGRAM .....	3	SCHEMATIC DIAGRAM (T-85L) .....	18
CIRCUIT DESCRIPTION .....	4	EXPLODED VIEW .....	24
ADJUSTMENT .....	7	PARTS LIST .....	25
PC BOARD (COMPONENT SIDE VIEW) .....	9	SPECIFICATIONS .....	Back cover
WIRING DIAGRAM .....	11		

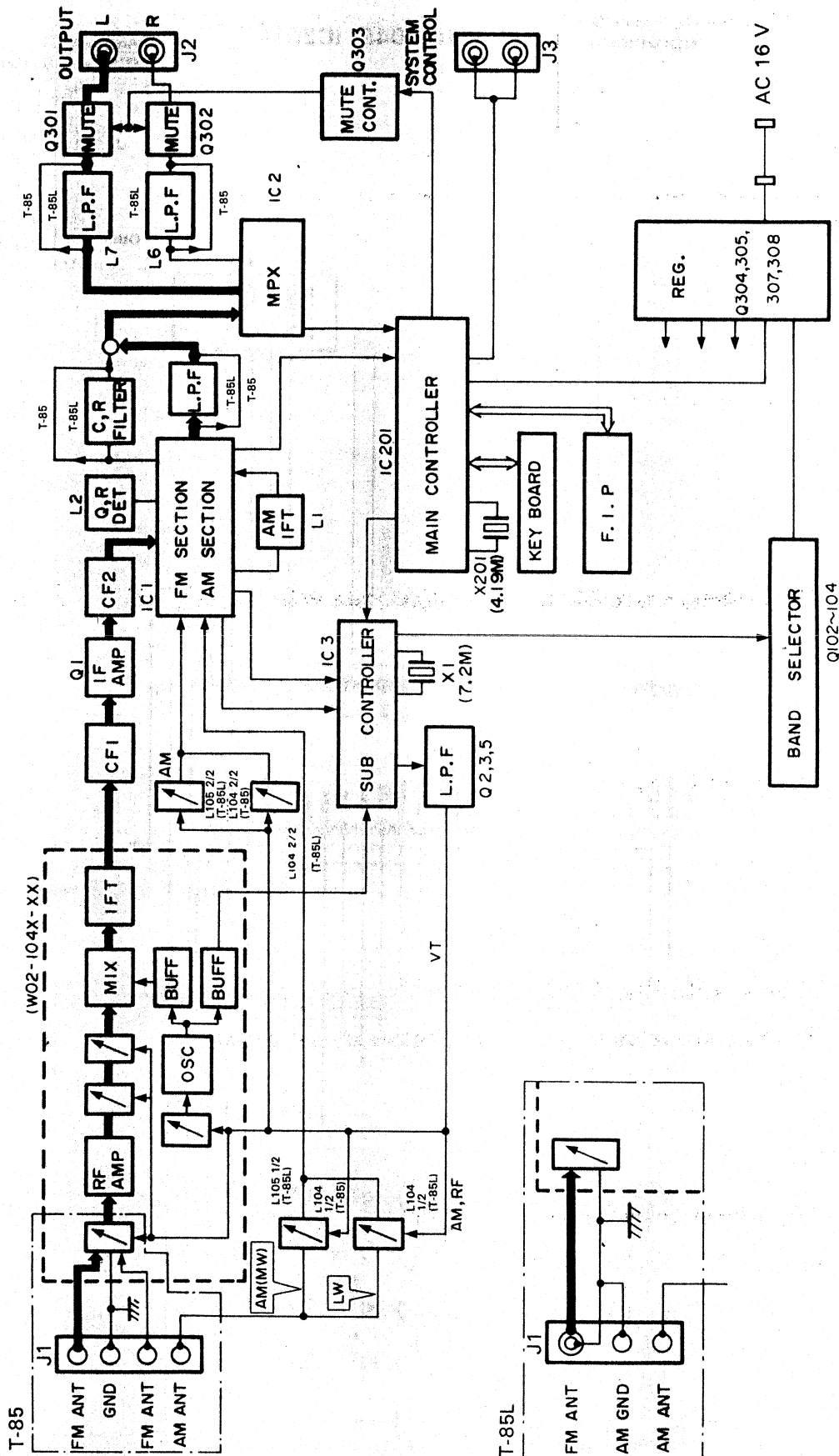
	JAPAN MADE	SINGAPORE MADE	FRANCE MADE
T-85	X05-4140-20 (M) X05-4140-71 (X)	X05-4150-20 (M) X05-4150-71 (X)	_____
T-85L	X05-4142-71 (T,E)	X05-4152-71 (T,E)	X05-4142-72 (E)

The T-85 and T-85L are made in different countries. However, their circuits are identical.

### Accessories

<p><b>LOOP ANTENNA</b> (T90-0153-05): FRANCE MADE</p> 	<p><b>T TYPE ANTENNA</b> (T90-0176-05): JAPAN MADE (T90-0176-05): FRANCE MADE (T90-0175-05): SINGAPORE MADE</p> 
<p><b>LOOP ANTENNA</b> (T90-0173-05): JAPAN MADE (T90-0174-05): SINGAPORE MADE</p> 	<p><b>ANTENNA ADAPTOR</b> (T90-0177-05): (T-85L ONLY)</p>  <p><b>ANTENNA HOLDER</b> (J19-2815-04)</p> 

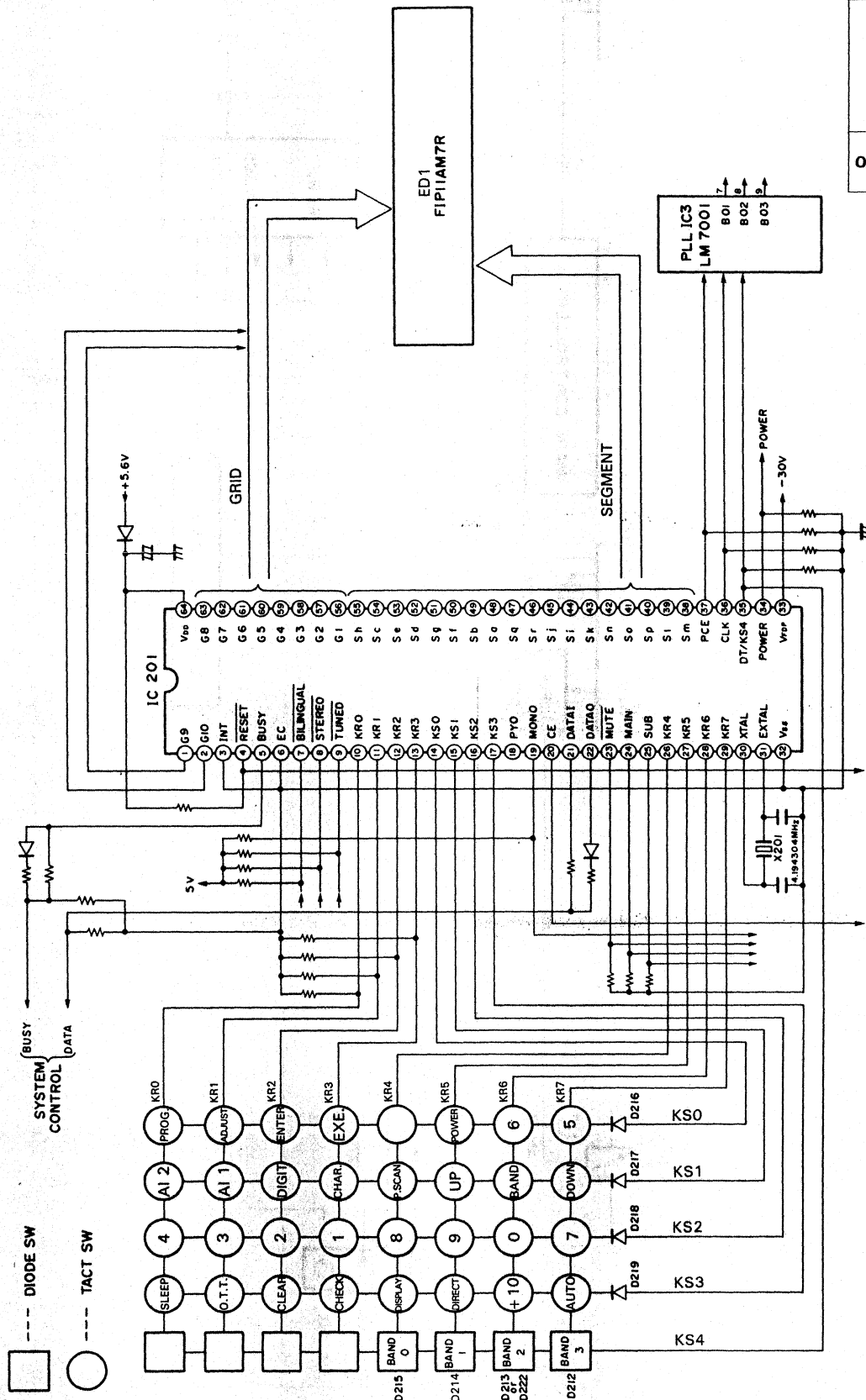
## BLOCK DIAGRAM



# T-85/85L

## CIRCUIT DESCRIPTION

Blockdiagram of surrounding microprocessor (CXP50216-104S: IC201)





## CIRCUIT DESCRIPTION

## Pin functions

Pin No.	Pin name	I/O	Name	Operation description
1, 2	T1, T0	O	G9, G10	FL grid output 9G, 10G
3	INT	I		No use (GND)
4	RST	I	RESET	Reset input H: NORMAL L: RESET
5	ADI/PB3	I/O	BUSY	System control BUSY input/output
6	EC	I		No use (GND)
7	SC/PX0	I	BIL	BILINGUAL H: NORMAL L: BILINGUAL
8	SO/PX1	I	STEREO	Stereo signal input H: MONO L: STEREO
9	SI/PX2	I	TUNED	Tuning signal input H: NO L: TUNED
10~13	PF0~PF3	I	KR0~KR3	Key return input H: ON L: OFF
14~17	PE0~PE3	O	KS0~KS3	Key scan output H: ON L: OFF
18	PY0	O		No use (OPEN)
19	PWM/PY1	O	MONO	Forced MONO output H: MONO L: STEREO
20	WP/PY2	I	CE	AC OFF detection input H: AC ON L: AC OFF
21	RMC/PY3	I	DATAI	System control DATA input
22	PD0	O	DATAO	System control DATA output
23	PD1	O	MUTE	Line mute H: MUTE OFF L: MUTE ON
24	PD2	O	MAIN	No use
25	PD3	O	SUB	No use
26~29	PC0~PC3	I	KR4~KR7	Key return input H: ON L: OFF
30	XTAL			Quartz oscillator 4.194304MHz
31	EXTAL			Quartz oscillator 4.194304MHz
32	V <sub>SS</sub>			GND pin
33	V <sub>FDP</sub>			-30 V
34	PH0/S0	O	POWER	POWER ON/OFF control H: ON L: OFF
35	PH1/S1	O	DT/KS4	PLL DATA output Key scan output for destination SW
36	PH2/S2	O	CLK	PLL CLOCK output
37	PH3/S3	O	PCE	PLL CE output
38~55	PG0/S4~S23/T8	O	Sm~Sh	FL segment output (m, l, p, o, n, k, i, j, r, q, a, b, f, g, d, e, c, h)
56~63	S22/T9~T2	O	G1~G8	FL grid output 1G~8G
64	V <sub>DD</sub>			+5 V (Power supply)

# T-85/85L

## CIRCUIT DESCRIPTION

### Test mode

- (1) Method of setting  
While pressing the DOWN key, turn AC ON.
- (2) Contents  
Power ON  
FLL all lit  
Test frequency setting (Table 1)
- (3) Method of canceling  
Clearing the FL all lit state is performed by numeral key,  
BAND key, UP/DOWN key or POWER key.

### Initial status setting (reset)

- (1) Method  
While pressing the ENTER key, turn AC ON.
- (2) Contents  
The all memory is cleared and the initial status is fully re-  
stored. At this time, however, test frequency is newly  
memorized in the preset memory. (Table 1)

Destination Preset channel	T-85		T-85L	
	J TYPE	M, X TYPE	T, E TYPE	
01ch	FM 83.5 MHz	FM 98.0 MHz	FM 98.0 MHz	
02ch	FM 90.0 MHz	FM 108.0 MHz	FM 108.0 MHz	
03ch	AM 630 kHz	AM 630 kHz	AM 630 kHz	
04ch	AM 990 kHz	AM 990 kHz	AM 990 kHz	
05ch	AM 1440 kHz	AM 1440 kHz	AM 1440 kHz	
06ch	AM 1602 kHz	AM 1602 kHz (AM 1610 kHz)	AM 1602 kHz	
07ch	TV 3 ch	FM 87.5 MHz	LW 162 kHz	
08ch	TV 8 ch	FM 87.5 MHz	LW 216 kHz	
09ch	TV 35 ch	FM 87.5 MHz	LW 270 kHz	
10ch	FM 89.1 MHz	FM 89.1 MHz	FM 89.1 MHz	
11ch	TV 1 ch	FM 87.5 MHz	LW 281 kHz	
12ch	TV 3 ch	FM 87.5 MHz	FM 87.5 MHz	
13ch	TV 4 ch	FM 87.5 MHz	FM 87.5 MHz	
14ch	TV 8 ch	FM 87.5 MHz	FM 87.5 MHz	
15ch	TV 12 ch	FM 87.5 MHz	FM 87.5 MHz	
16ch	TV 13 ch	FM 87.5 MHz	FM 87.5 MHz	
17ch	TV 35 ch	FM 87.5 MHz	FM 87.5 MHz	
18ch	TV 62 ch	FM 87.5 MHz	FM 87.5 MHz	
19ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	
20ch ~ 30ch	FM 76.0 MHz	FM 87.5 MHz	FM 87.5 MHz	

(Table 1)

### Conditions by destination

Destination type		Destination switches				Band	Receiving frequency range	Inter-channel space	Intermediate frequency	PLL reference frequency
		B3	B2	B1	B0					
T-85	J	0	0	0	0	FM	76.0 ~ 90.0 MHz	100 kHz	− 10.75 MHz	25 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						TV	1 ~ 62ch	6 MHz	− 10.75 MHz	25 kHz
	M	1	1 or 0	1	0	FM	87.5 ~ 108.0 MHz	100 kHz /50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz or 530 ~ 1610 kHz	9 kHz or 10 kHz	+ 450 kHz	10 kHz
	K,P	1	0	0	0	FM	87.5 ~ 108.0 MHz	100 kHz	+ 10.7 MHz	50 kHz
						AM	530 ~ 1700 kHz	10 kHz	+ 450 kHz	10 kHz
	X	1	1	0	0	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						AM	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
T-85L	T,E	1	1	0	1	FM	87.5 ~ 108.0 MHz	50 kHz	+ 10.7 MHz	50 kHz
						MW	531 ~ 1602 kHz	9 kHz	+ 450 kHz	9 kHz
						LW	153 ~ 281 kHz	1 kHz	+ 450 kHz	1 kHz

# T-85/85L

## ADJUSTMENT

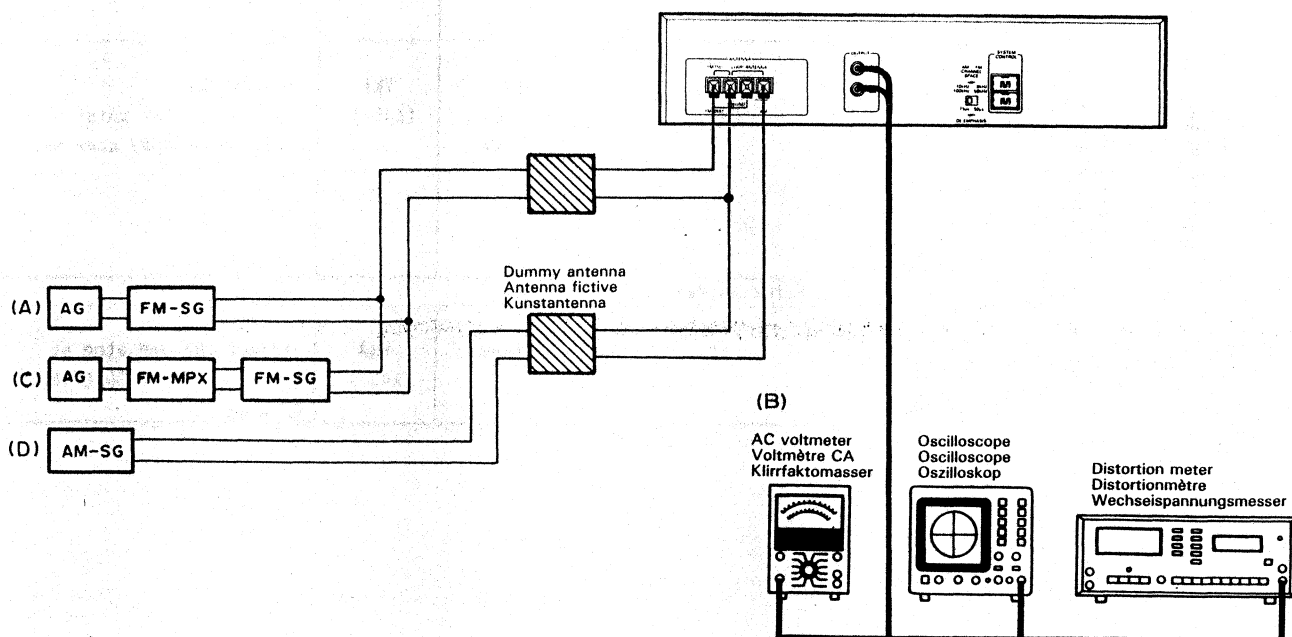
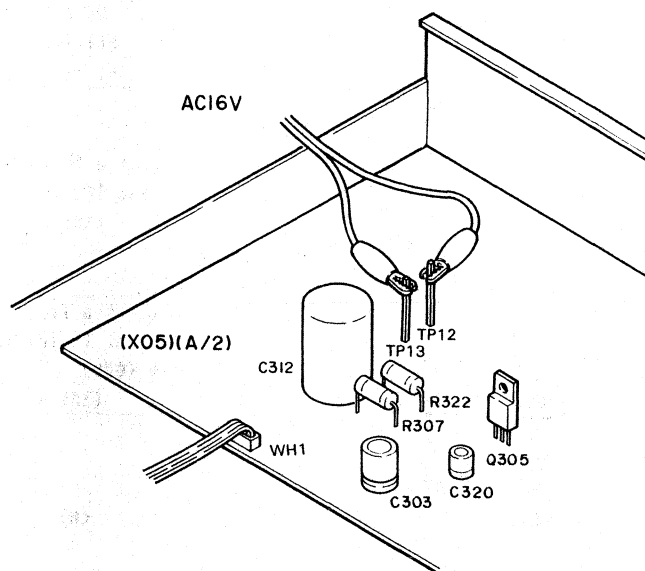
No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TUNER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION		SELECTOR: FM					
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev (M,X type) 1kHz, $\pm 40$ kHz dev (E,T type) 60dB $\mu$ (ANT input)	Connect a DC voltmeter between TP3 and TP4. (X05-)	AUTO or MONO 98.0MHz	L2 (X05-)	0V	(a)
2	VCO	(A) 98.0MHz 0 dev 60dB $\mu$ (ANT input)	Connect a frequency counter to TP5 and TP6 (GND). (X05-)	AUTO 98.0MHz	VR2 (X05-)	19.00kHz	(b)
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, $\pm 68.25$ kHz dev Pilot: $\pm 7.5$ kHz dev (M,X type) 1kHz, $\pm 40$ kHz dev Pilot: $\pm 6$ kHz dev (E,T type) 60dB $\mu$ (ANT input)	(B)	MONO 98.0MHz	IFT (W02-)	Minimum distortion	
4	SEPARATION (E,T type only)	(C) 98.0MHz 1kHz, $\pm 40$ kHz dev Pilot $\pm 6$ kHz dev Selector: L or R 60dB $\mu$ (ANT input)	(B)	AUTO 98.0MHz	VR4 (X05-)	Minimum crosstalk	
5	TUNING LEVEL	(A) 98.0MHz 1kHz, $\pm 75$ kHz dev (M,X type) 1kHz, $\pm 45$ kHz dev (E,T type) 14dB $\mu$ (ANT input) 750 18dB $\mu$ (ANT input) 3000	(B)	AUTO or MONO 98.0MHz	VR1 (X05-)	Adjust VR1 and stop at the point where ED1(TUNED) goes on.	
AM (MW) SECTION		SELECTOR: AM(MW)					
(1)	TUNING LEVEL	(D) 1008kHz 400Hz, 30% mod 26dB $\mu$ (ANT input)	(B)	1008kHz	VR3 (X05-)	Adjust VR3 and stop at the point where ED1(TUNED) goes on.	

# T-85/85L

## ADJUSTMENT

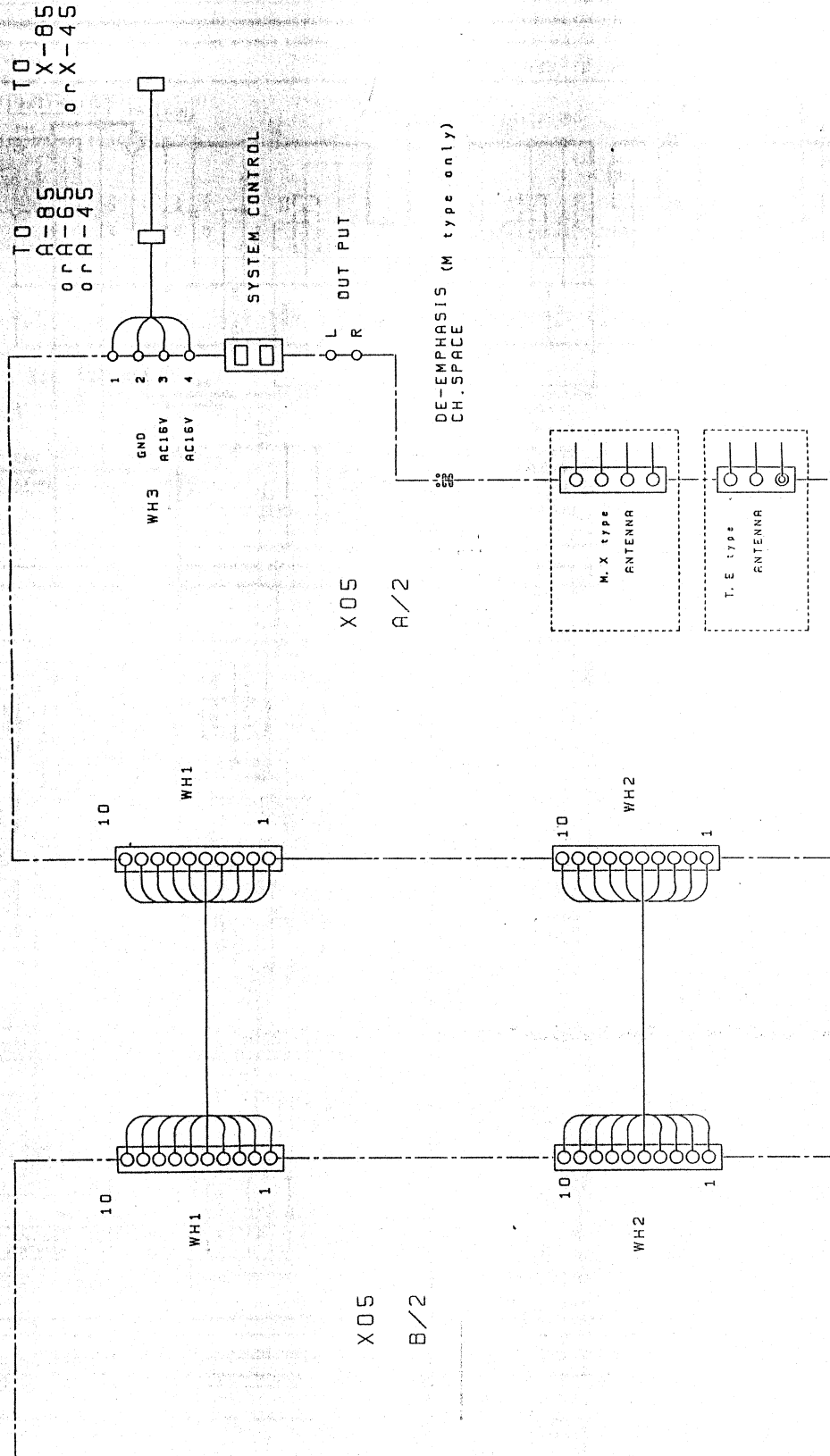
The T-85 and T-85L don't have a power transformer. Use A-45/65/85 or RM-90PS to supply power to the T-85/85L. If neither is available, apply AC 16 V to TP12 and TP13 of the tuner unit (X05, A/2).

**When turning the power on, short the connector pin of CN 201 (X05-B/2).**

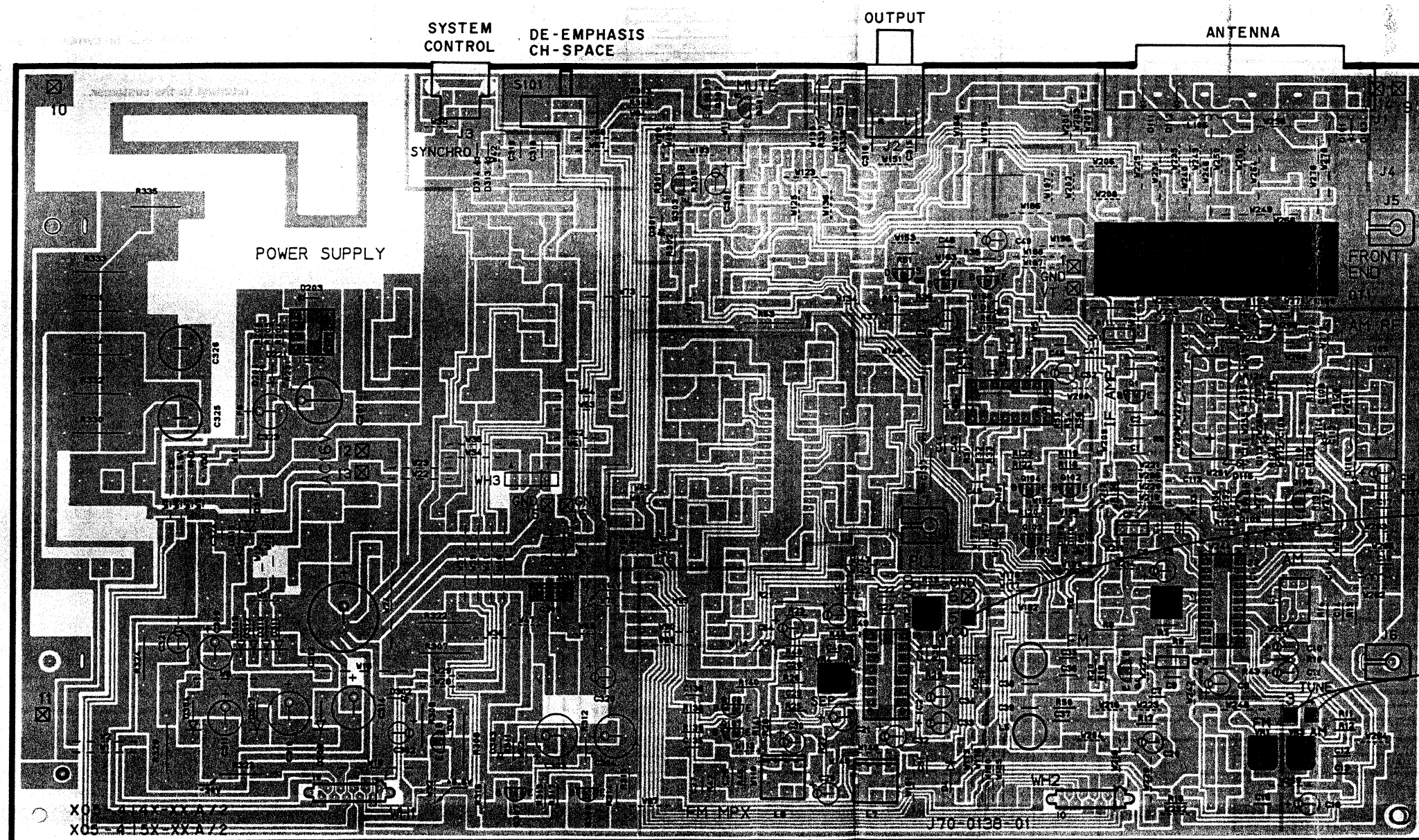


# T-85/85L

## WIRING DIAGRAM



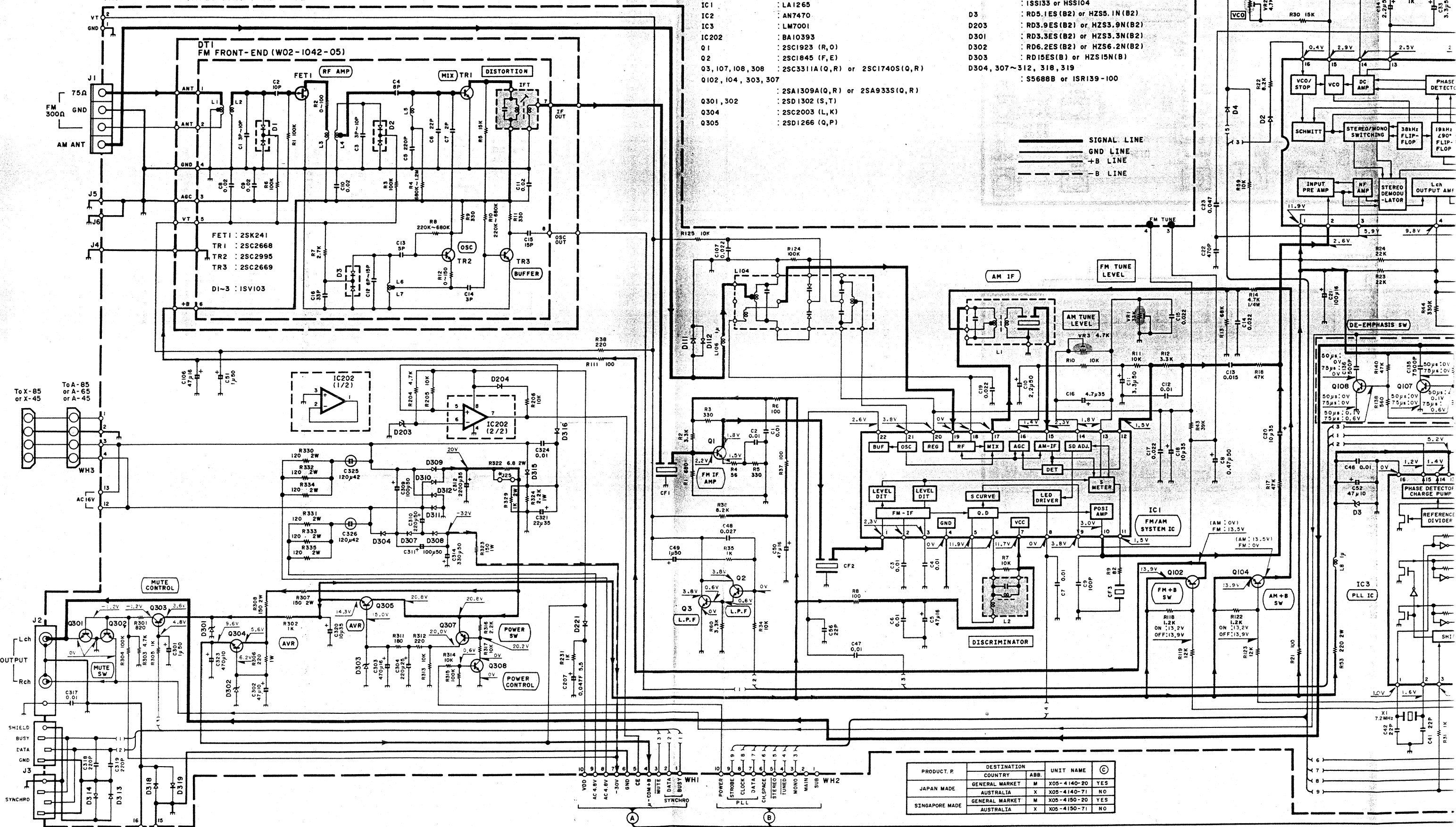




Frequency counter

DC voltmeter

TUNER UNIT  
(X05-4140-XX) (A/2) JAPAN MADE  
(X05-4150-XX) (A/2) SINGAPORE MADE



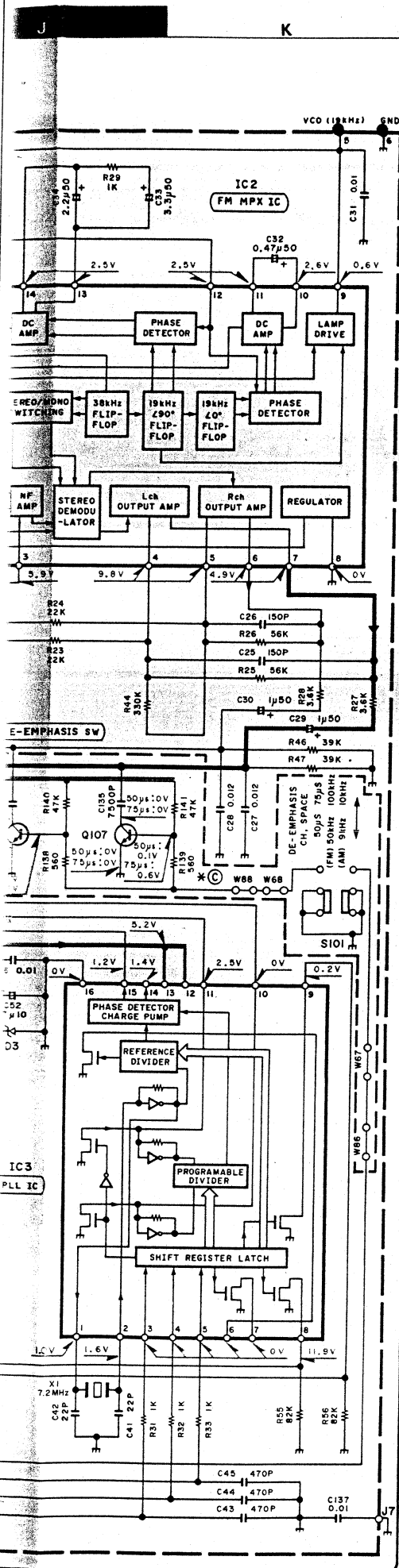
- IC1 : LA1265  
IC2 : AN7470  
IC3 : LM7001  
IC202 : 8A10393  
Q1 : 2SC1923 (R,O)  
Q2 : 2SC1845 (F,E)  
Q3, 107, 108, 308 : 2SC3311A(Q,R) or 2SC1740S(Q,R)  
Q102, 104, 303, 307 : 2SA1309A(Q,R) or 2SA933S(Q,R)  
Q301, 302 : 2SD1302 (S,T)  
Q304 : 2SC2003 (L,K)  
Q305 : 2SD1266 (Q,P)

- D2, 4, 111, 112, 204, 221, 313 ~ 316 : ISS133 or HSS104  
D3 : RD5.1ES(B2) or HZS5.1N(B2)  
D203 : RD3.9ES(B2) or HZS3.9N(B2)  
D301 : RD3.3ES(B2) or HZS3.3N(B2)  
D302 : RD6.2ES(B2) or HZS6.2N(B2)  
D303 : RD15ES(B) or HZS15N(B)  
D304, 307 ~ 312, 318, 319 : S5688B or ISR139-100

SIGNAL LINE  
GND LINE  
+B LINE  
-B LINE

PRODUCT P.	DESTINATION	UNIT NAME	©
JAPAN MADE	GENERAL MARKET	M X05-4140-20	YES
AUSTRALIA	X X05-4140-71	NO	
SINGAPORE MADE	GENERAL MARKET	M X05-4150-20	YES
AUSTRALIA	X X05-4150-71	NO	






T-85 (M)(1/2)

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

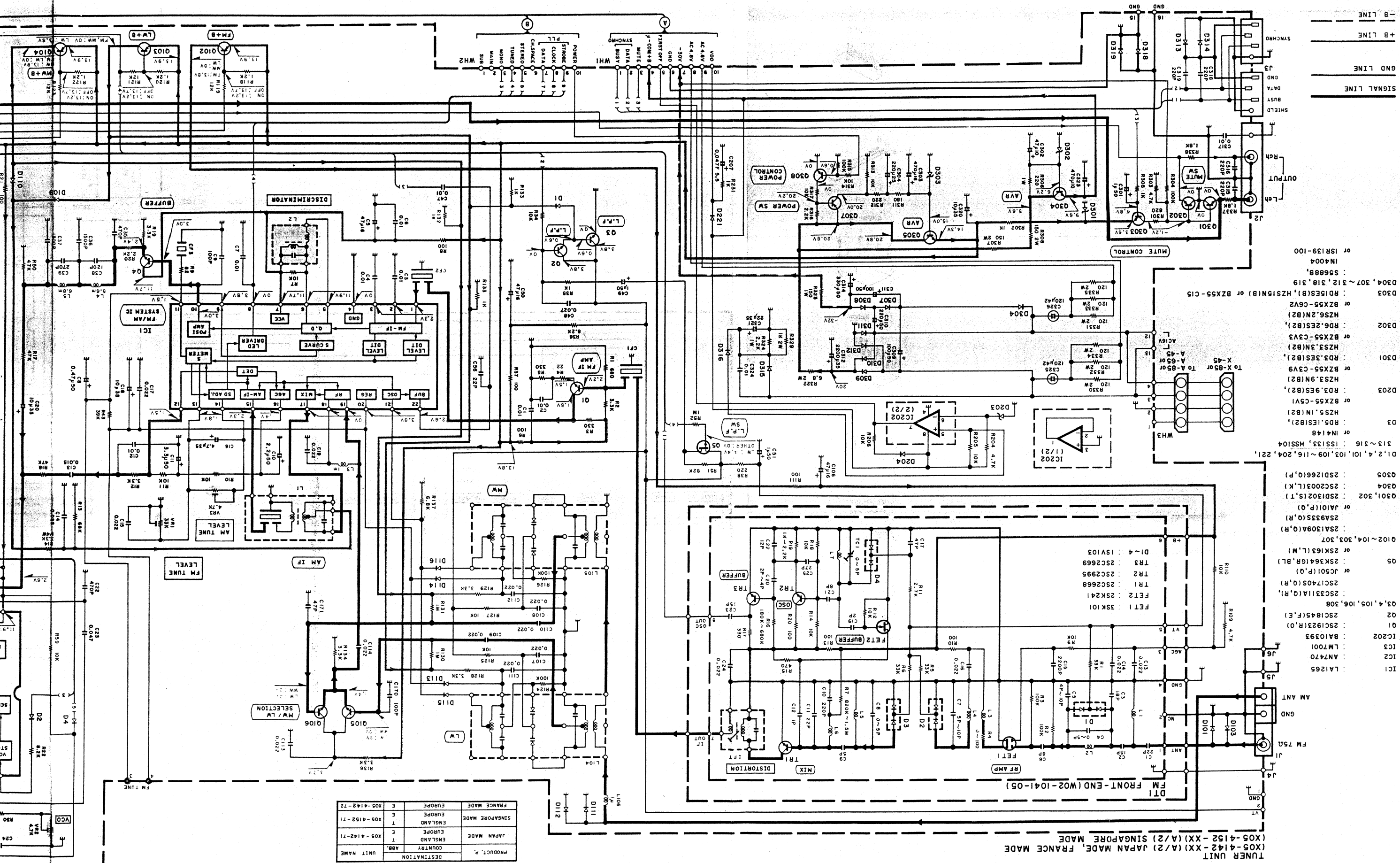
**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

Y07-3462-71

T-85

KENWOOD

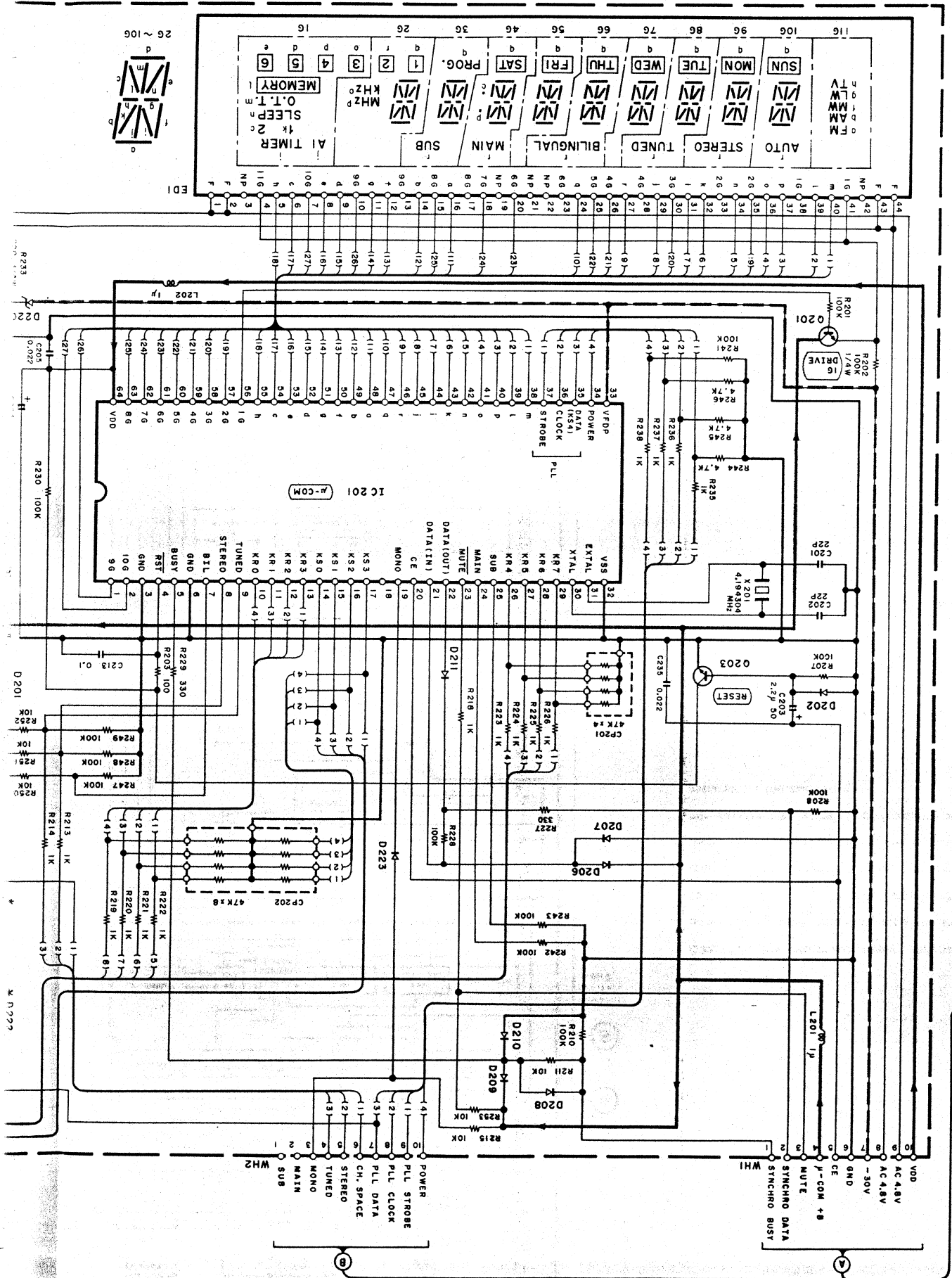




UNIT NAME	DESTINATION		PRODUCT, P.
	ABR.	COUNTRY	
JAPAN MADE	E	ENGLAND	JAPAN MADE
	T	EUROPE	
	E	ENGLAND	
SINGAPORE MADE	E	EUROPE	SINGAPORE MADE
	T	EUROPE	
	E	EUROPE	
FRANCE MADE	E	EUROPE	FRANCE MADE
	E	EUROPE	
	E	EUROPE	

(X05-4142-XX) (A/2) JAPAN MADE, FRANCE MADE  
(X05-4152-XX) (A/2) SINGAPORE MADE



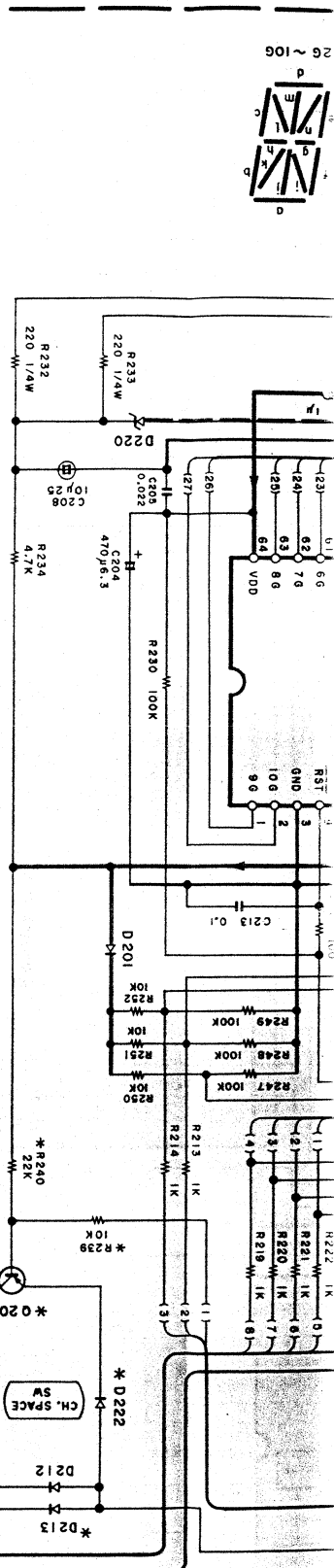


TO  
-WH1  
(X05-)(A/2)

(A)

(B)

TO  
-WH2  
(X05-)(B/2)

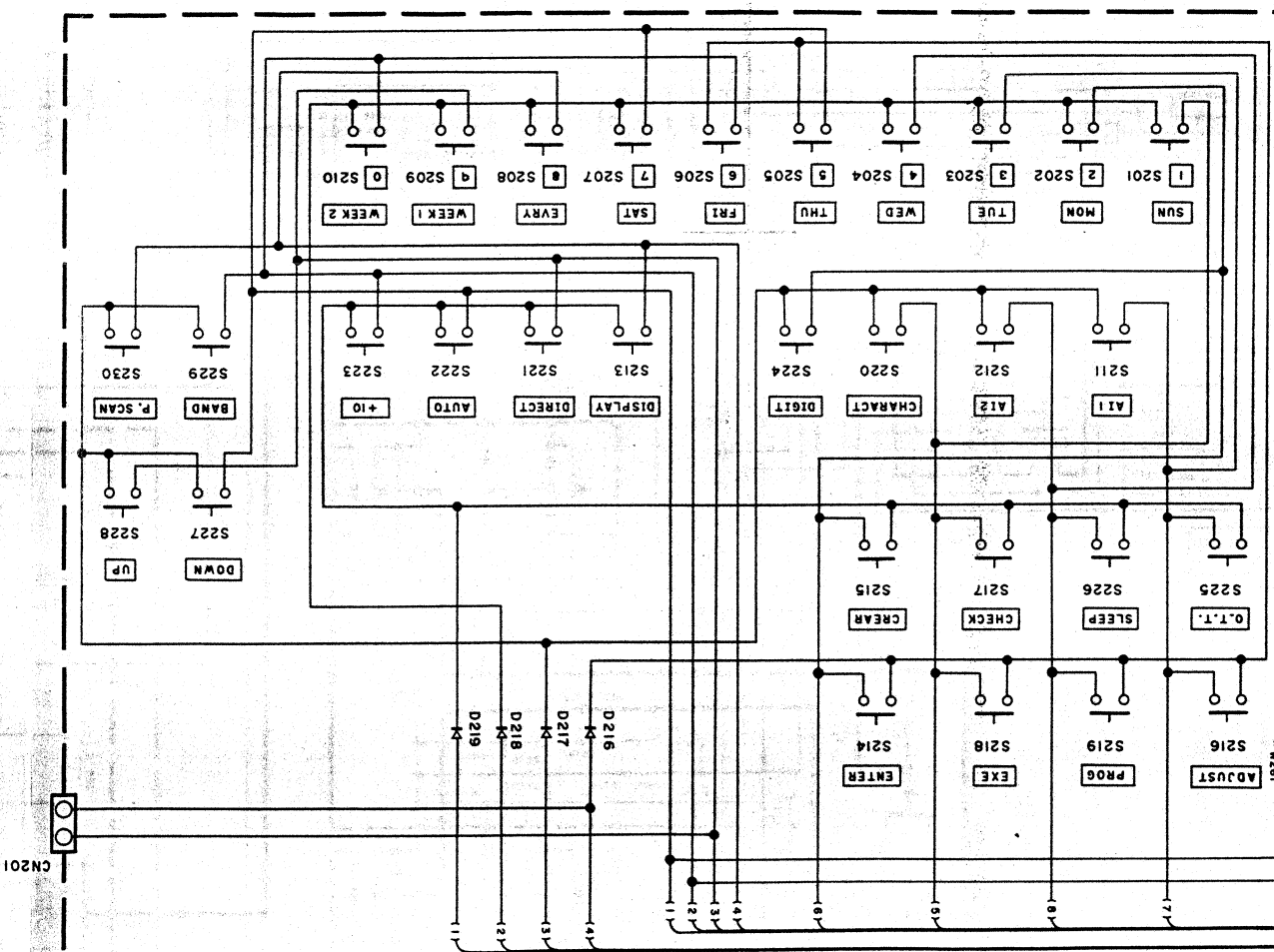
[illegible]

```

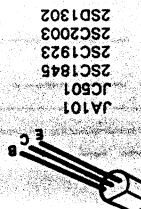
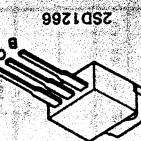
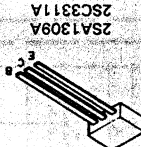
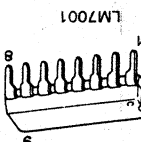
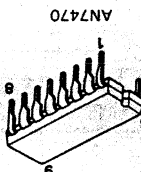
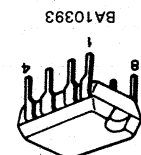
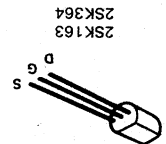
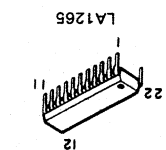
0201,203 : 25C3311A(0,R) or 25C17405(0,R)
0202 : 25A1309A(0,R) or 25A9335(0,R)
D201,202,206~214,216~219,222,223
      : ISS133 or HSS104
D220 : R06,2ES(B2) or HZS6,2N(B2)
EDI : F1P11AM7R

```


IC 201 : CXP50216 - 104S



(X05-4140-XX)(B/2)(JAPAN MADE)  
(X05-4150-XX)(B/2)(SINGAPORE MADE)



-8 LINE  
 +8 LINE  
 GND LINE

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list).  Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

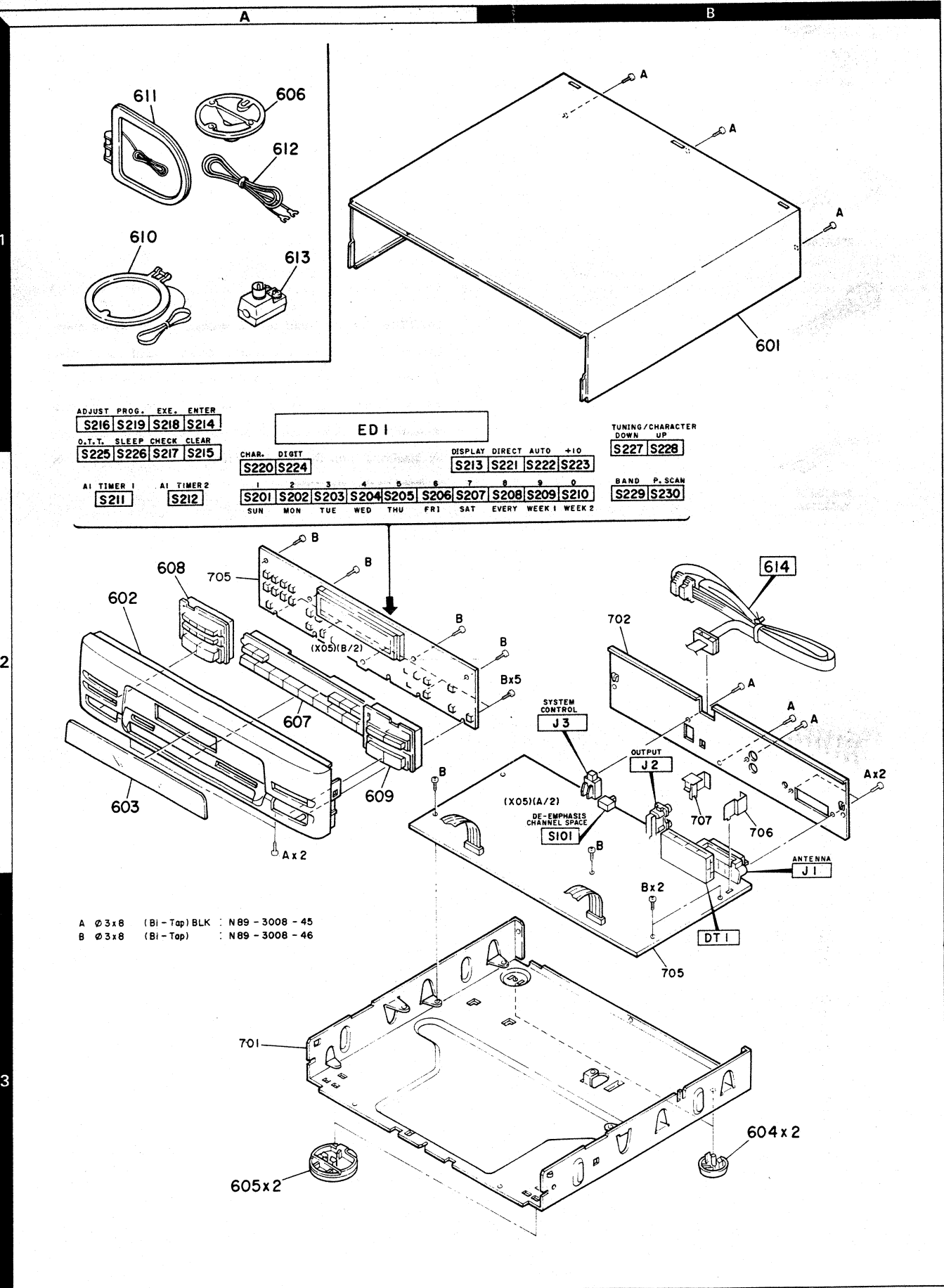
Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u. geringfügig.

Les tensions c.c. doivent être mesurées avec un volt-mètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.



EXPLODED VIEW

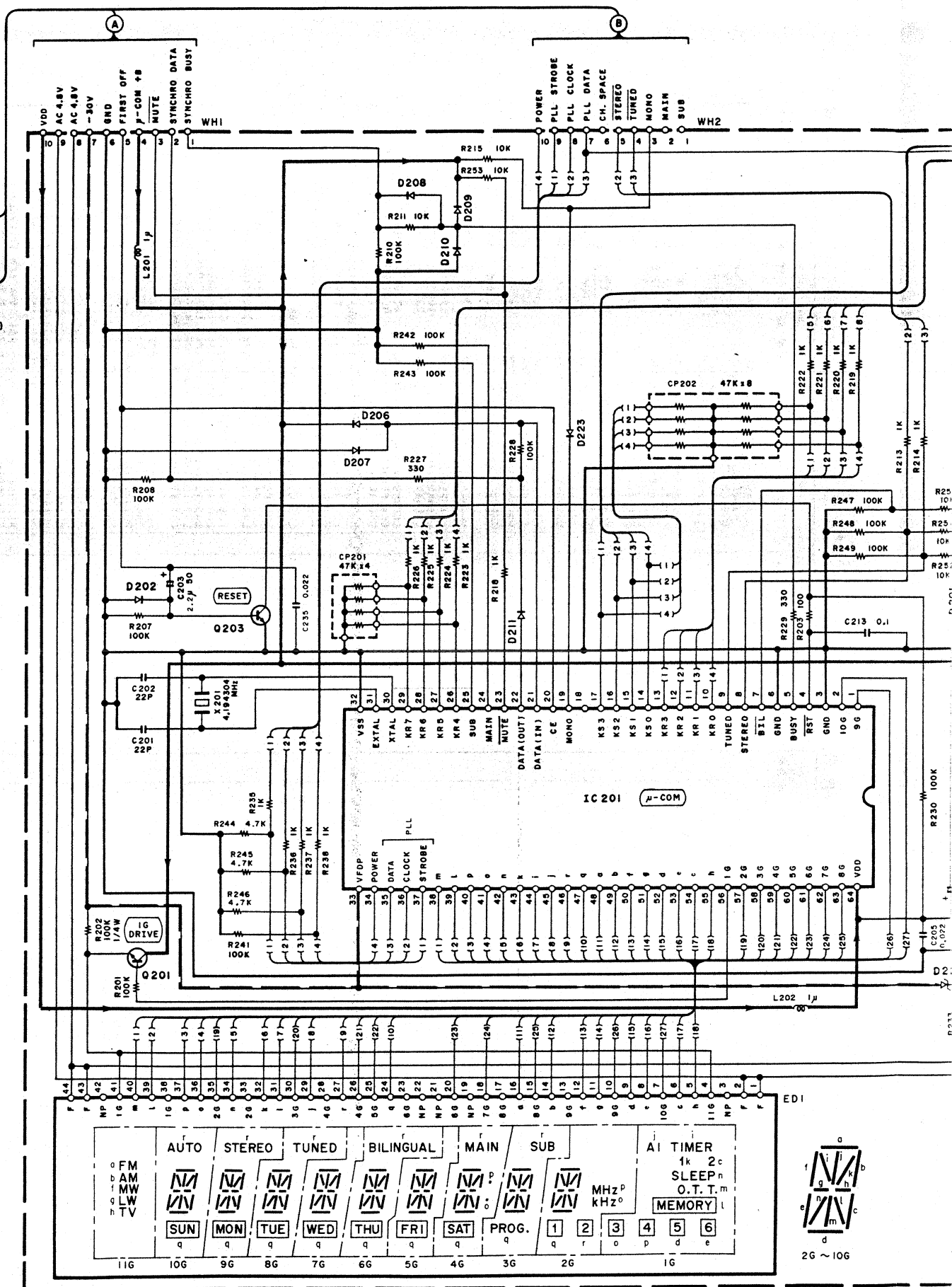


Parts with the exploded numbers larger than 700 are not supplied.

PARTS LIST

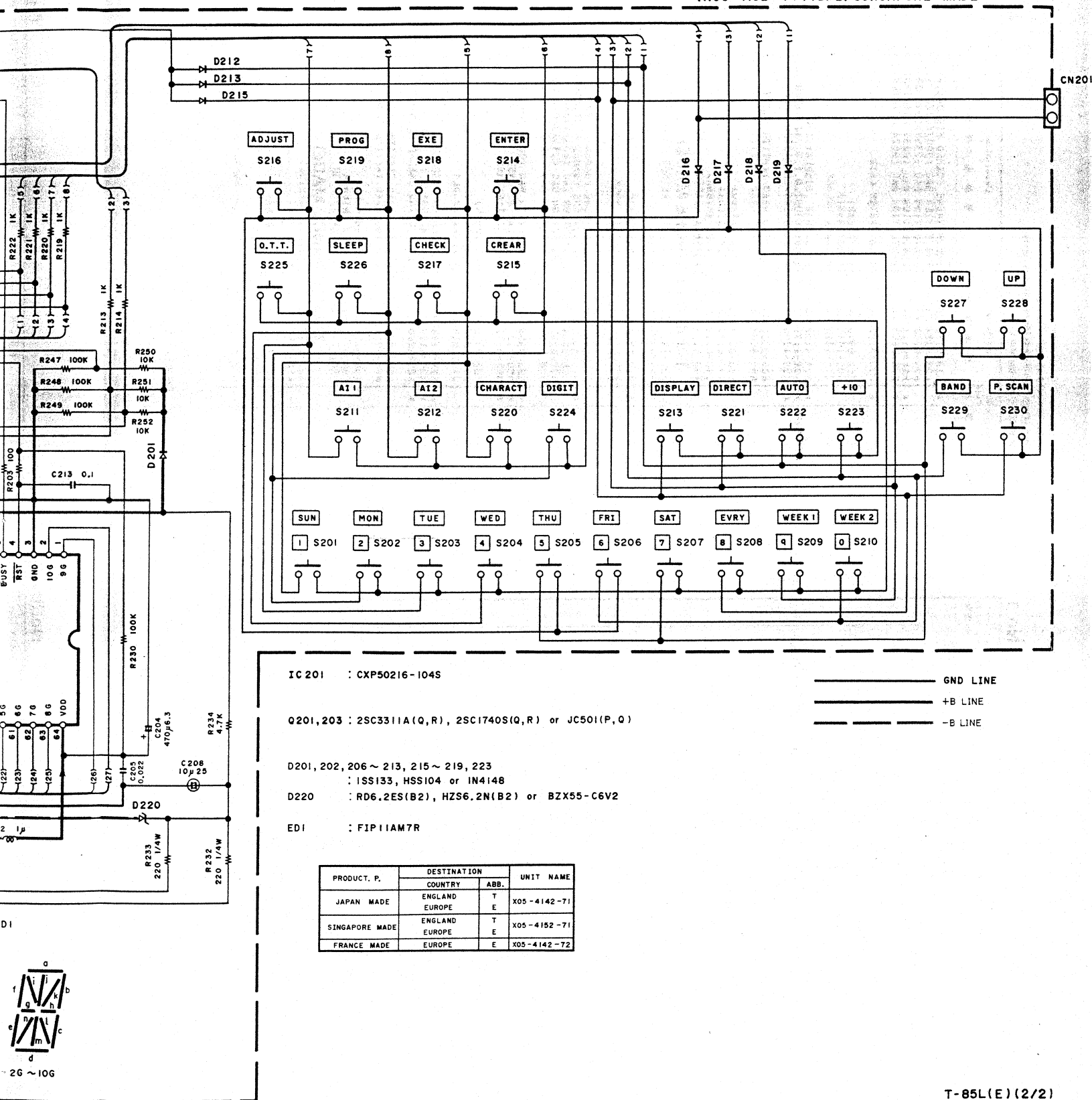
No.1				No.2			
Ref. No.	Address	Parts No.	Description	Ref. No.	Address	Parts No.	Description
T-85 (JAPAN MADE)				T-85L (SINGAPORE MADE)			
601	1B	A01-1799-01	METALLIC CABINET	601	1B	A01-1887-11	METALLIC CABINET
602	2A	A60-0086-01	PANEL	602	2A	A60-0087-01	PANEL
603	2A	B10-1862-03	FRONT GLASS	603	2A	B10-1862-03	FRONT GLASS
		B46-0096-23	WARRANTY CARD			B46-0122-13	WARRANTY CARD
						B46-0143-13	WARRANTY CARD
		H10-5157-02	POLYSTYRENE FOAMED FIXTURE(L)			H10-5224-02	POLYSTYRENE FOAMED FIXTURE(L)
		H10-5158-02	POLYSTYRENE FOAMED FIXTURE(R)			H10-5225-02	POLYSTYRENE FOAMED FIXTURE(R)
		H25-0224-04	PROTECTION BAG (800X400X0.03)			H25-0224-04	PROTECTION BAG (800X400X0.03)
		H25-0232-04	PROTECTION BAG (235X350X0.03)			H25-0232-04	PROTECTION BAG (235X350X0.03)
		H50-0117-04	ITEM CARTON CASE			H25-0651-04	PROTECTION BAG (0232 PRINTED)
604	3B	J02-0370-05	FOOT(REAR)			H25-0653-04	PROTECTION BAG (0224 PRINTED)
605	3A	J02-1040-05	FOOT(FRONT)			H50-0121-04	ITEM CARTON CASE
606	1A	J19-2815-04	ANTENNA HOLDER			H50-0122-04	ITEM CARTON CASE
607	2A	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)	604	3B	J02-0370-05	FOOT(REAR)
608	2A	K29-4199-03	KNOB(ADJUST,0.T.T.,AI TIMER 1)	605	3A	J02-1040-05	FOOT(FRONT)
609	2A	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)	606	1A	J19-2815-04	ANTENNA HOLDER
A		N89-3008-45	BINDING HEAD TAPITTE SCREW	607	2A	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)
B		N89-3008-46	BINDING HEAD TAPITTE SCREW	608	2A	K29-4199-03	KNOB(ADJUST,0.T.T.,AI TIMER 1)
611	1A	T90-0173-05	LOOP ANTENNA	609	2A	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)
612	1A	T90-0174-05	LOOP ANTENNA	A		N89-3008-45	BINDING HEAD TAPITTE SCREW
613	1A	T90-0175-05	T TYPE ANTENNA	B		N89-3008-46	BINDING HEAD TAPITTE SCREW
T-85 (SINGAPORE MADE)				611	1A	T90-0174-05	LOOP ANTENNA
601	1B	A01-1887-11	METALLIC CABINET	612	1A	T90-0175-05	T TYPE ANTENNA
602	2A	A60-0086-01	PANEL	613	1A	T90-0177-05	ANTENNA ADAPTOR
603	2A	B10-1862-03	FRONT GLASS	T-85L (FRANCE MADE)			
		B46-0096-23	WARRANTY CARD	601	1B	A01-1799-01	METALLIC CABINET
		H10-5224-02	POLYSTYRENE FOAMED FIXTURE(L)	602	2A	A60-0086-01	PANEL
		H10-5225-02	POLYSTYRENE FOAMED FIXTURE(R)	603	2A	B10-1862-03	FRONT GLASS
		H25-0224-04	PROTECTION BAG (800X400X0.03)			B46-0122-13	WARRANTY CARD
		H25-0232-04	PROTECTION BAG (235X350X0.03)			B46-0143-13	WARRANTY CARD
		H50-0120-04	ITEM CARTON CASE			H10-5157-02	POLYSTYRENE FOAMED FIXTURE(L)
604	3B	J02-0370-05	FOOT(REAR)				
605	3A	J02-1040-05	FOOT(FRONT)				
606	1A	J19-2815-04	ANTENNA HOLDER				
607	2A	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)				
608	2A	K29-4199-03	KNOB(ADJUST,0.T.T.,AI TIMER 1)				
609	2A	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)				
A		N89-3008-45	BINDING HEAD TAPITTE SCREW				
B		N89-3008-46	BINDING HEAD TAPITTE SCREW				
611	1A	T90-0173-05	LOOP ANTENNA				
612	1A	T90-0174-05	LOOP ANTENNA				
613	1A	T90-0175-05	T TYPE ANTENNA				
T-85L (JAPAN MADE)							
601	1B	A01-1799-01	METALLIC CABINET				
602	2A	A60-0086-01	PANEL				
603	2A	B10-1862-03	FRONT GLASS				
		B46-0096-23	WARRANTY CARD				
		H10-5224-02	POLYSTYRENE FOAMED FIXTURE(L)				
		H10-5225-02	POLYSTYRENE FOAMED FIXTURE(R)				
		H25-0224-04	PROTECTION BAG (800X400X0.03)				
		H25-0232-04	PROTECTION BAG (235X350X0.03)				
		H50-0120-04	ITEM CARTON CASE				
604	3B	J02-0370-05	FOOT(REAR)				
605	3A	J02-1040-05	FOOT(FRONT)				
606	1A	J19-2815-04	ANTENNA HOLDER				
607	2A	K29-4198-02	KNOB(CHAR.,DISPLAY,1-0)				
608	2A	K29-4199-03	KNOB(ADJUST,0.T.T.,AI TIMER 1)				
609	2A	K29-4200-03	KNOB(TUNING/CHARACTER,BAND)				
A		N89-3008-45	BINDING HEAD TAPITTE SCREW				
B		N89-3008-46	BINDING HEAD TAPITTE SCREW				
611	1A	T90-0173-05	LOOP ANTENNA				
612	1A	T90-0174-05	LOOP ANTENNA				
613	1A	T90-0175-05	T TYPE ANTENNA				

\* New Parts  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

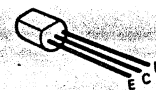
TO  
(X05-1(A/2)  
WH1TO  
(X05-1(B/2)  
WH2

2G ~ 10G

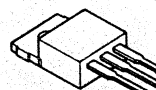
(X05-4142-XX)(B/2) JAPAN MADE, FRANCE MADE  
(X05-4152-71)(B/2) SINGAPORE MADE



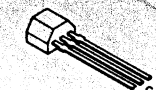
T-85L(E) (2/2)



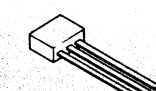
JA101  
JC501  
2SC1845  
2SC1923  
2SC2003  
2SD1302



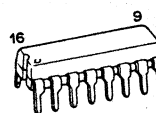
2SD1266



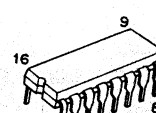
2SA933S  
2SC1740S



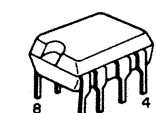
2SA1309A  
2SC3311A



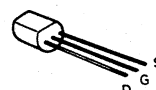
LM7001



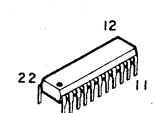
AN7470



BA10393



2SK163  
2SK364



LA1265

DC voltages are as measured with a high impedance voltmeter. Values may vary slightly due to variations between individual instruments or/and units.

Les tensions c.c. doivent être mesurées avec un voltmètre à haute impédance. Les valeurs peuvent différer légèrement du fait des variations inhérentes aux appareils et aux instruments de mesure individuels.

Die angegebenen Gleichspannungswerte wurden mit einem hochohmigen Spannungsmesser gemessen. Dabei schwanken die Meßwerte aufgrund von Unterschieden zwischen einzelnen Instrumenten oder Geräten u.U. geringfügig.

**CAUTION:** For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Indicates safety critical components. To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

## No.3

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
604	3B	H10-5223-02	POLYSTYRENE FOAMED FIXTURE(R)		
605	3A	H25-0224-04	PROTECTION BAG (800X400X0.03)		
606	1A	H25-0232-04	PROTECTION BAG (235X350X0.03)		
607	2A	H50-0119-04	ITEM CARTON CASE		
608	2A	J02-0370-05	FOOT(REAR)		
609	2A	J02-1040-05	FOOT(FRONT)		
610	1A	J19-2615-04	ANTENNA HOLDER		
611	2A	K29-4198-02	KN08(CHAR., DISPLAY, 1-0)		
612	2A	K29-4199-03	KN08(ADJUST., 0.T.T., AI TIMER 1)		
613	1A	K29-4200-03	KN08(TUNING/CHARACTER.BAND)		
A		N89-3008-45	BINDING HEAD TAPITE SCREW		
B		N89-3008-46	BINDING HEAD TAPITE SCREW		
610	1A	T90-0153-05	LOOP ANTENNA		
612	1A	T90-0176-05	T TYPE ANTENNA		
613	1A	T90-0172-05	ANTENNA ADAPTOR		
<b>T-85 TUNER UNIT (X05-4140-20)</b>					
C1		CK45FF1H103Z	CERAMIC		
C5		CE04KW1C470M	ELECTRO		
C6		C91-0769-05	CERAMIC		
C7		CK45FF1H103Z	CERAMIC		
C8		CE04KW1H471M	ELECTRO		
C9		CC45FSL1H101J	CERAMIC		
C10		CE04KW1H2R2M	ELECTRO		
C11		CE04KW1H3R3M	ELECTRO		
C12		CK45FF1H103Z	CERAMIC		
C13		C92FV1H153J	MYLAR		
C14	15	CK45FF1H223Z	CERAMIC		
C16		CE04KW1V4R7M	ELECTRO		
C17		CK45FF1H223Z	CERAMIC		
C18		CE04KW1V100M	ELECTRO		
C19		CK45FF1H223Z	CERAMIC		
C20		CE04KW1V100M	ELECTRO		
C21		CE04KW1C101M	ELECTRO		
C22		CK45F81H471K	CERAMIC		
C23		C92FV1H473J	WE		
C24		CC93FCH1H471J	CERAMIC		
C25	26	CC45FSL1H151J	CERAMIC		
C27	28	C92FV1H123J	MYLAR		
C29	30	CE04KW1H010M	ELECTRO		
C31		CK45FF1H103Z	CERAMIC		
C32		CE04KW1H471M	ELECTRO		
C33		CE04KW1H3R3M	ELECTRO		
C34		CE04KW1H2R2M	ELECTRO		
C41	42	CC45FCH1H220J	CERAMIC		
C43	45	CK45F81H471K	CERAMIC		
C46		CK45FF1H103Z	CERAMIC		
C47		C91-0769-05	CERAMIC		
C48		C92FV1H1273J	MF		
C49		CE04KW1H010M	ELECTRO		
C50		CE04KW1C470M	ELECTRO		
C51		CE04KW1H010M	ELECTRO		
C52		CE04KW1A470M	ELECTRO		
C56		CC45FSL1H220J	CERAMIC		

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AF(Europe)

K:USA  
T:England  
X:Australia  
M:Other Areas

△ indicates safety critical components

\* New Parts

Parts without Parts No. are not supplied.

Les articles non mentionnés dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

## No.4

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 向	Re- marks 備考
C106		CE04KW1C470M	ELECTRO		
C107		CK45FF1H223Z	CERAMIC		
C135	136	C92FV1H1752J	MYLAR		
C137		C91-0769-05	CERAMIC		
C201	202	CC45FCH1H220J	CERAMIC		
C203		CE04KW1H2R2M	ELECTRO		
C204		CE04KW0J471M	ELECTRO		
C205		C91-0085-05	CERAMIC		
C207		C90-1827-05	BACKUP		
C208		C90-1332-05	NP-ELEC		
C213		C92FV1H104J	MF		
C235		C91-0085-05	CERAMIC		
C301		CE04KW1H010M	ELECTRO		
C302		CE04KW1A470M	ELECTRO		
C303		CE04DW1C471M	ELECTRO		
C304		CE04KW1E221M	ELECTRO		
C309		CE04KW1H010M	ELECTRO		
C310		CE04KW1H221M	ELECTRO		
C311		CE04KW1H010M	ELECTRO		
C312		CE04KW1V222M	ELECTRO		
C314		CE04KW1H331M	ELECTRO		
C317		CK45FF1H103Z	CERAMIC		
C318	319	CC45FSL1H221J	CERAMIC		
C320		CE04KW1V100M	ELECTRO		
C321		CE04KW1V220M	ELECTRO		
C323		CE04KW1A471M	ELECTRO		
C324		CK45FF1H103Z	CERAMIC		
C325	326	C90-1839-05	NP-ELEC		
614	2B	E30-2667-05	CARD WITH CONNECTOR(WHS)		
71	3B	E20-0476-05	LOCK TERMINAL BOARD(ANTENNA)		
72	2B	E13-0235-05	PHONE JACK (2P)(OUTPUT)		
73	2B	E08-0312-05	RECTANGULAR RECEPTACLE(S.CONT)		
CF1	2	L72-0531-05	CERAMIC FILTER		
CF9		L72-0096-05	CERAMIC FILTER		
L1		L30-0488-05	AN IPT		
L2		L30-0439-25	FM IPT		
L8		L40-1091-17	SHALL FIXED INDUCTOR(1.00H)		
L104		L39-0189-05	COMBINATION COIL		
L106		L40-1091-17	SHALL FIXED INDUCTOR(1.00H)		
L201	202	L40-1091-17	SHALL FIXED INDUCTOR(1.00H)		
X1		L77-1122-05	CRYSTAL RESONATOR(7.2MHz)		
X201		L77-1176-05	CRYSTAL RESONATOR(4.194304MHz)		
CP201		R90-0487-05	MULTI-COMP		
CP202		R90-0604-05	MULTI-COMP		
R53		RS14DB30221J	FL-PROOF RS		
R306		RS14KB3A221J	FL-PROOF RS		
R307	308	RS14DB30151J	FL-PROOF RS		
R322		RS14DB304R8J	FL-PROOF RS		
R323		RS14DB3A151J	FL-PROOF RS		
R324		RS14DB3A221J	FL-PROOF RS		
R329		RS14DB30102J	FL-PROOF RS		
R330	335	RS14DB30121J	FL-PROOF RS		
VR1		R12-3687-05	TRIMMING POT. 33K (FM T-LEVEL)		
VR2	3	R12-1619-05	TRIMMING POT. 4.7K (VCO, AM T-L)		

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AF(Europe)

K:USA  
T:England  
X:Australia  
M:Other Areas

△ indicates safety critical components

## T-85/85L

## PARTS LIST



T-85/85L

## PARTS LIST

No.6

X New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向
Q3		2SC1740S(Q,R)	TRANSISTOR	
Q3		2SC3311A(Q,R)	TRANSISTOR	
Q102		2SA1309A(Q,R)	TRANSISTOR	
Q104		2SA933S(Q,R)	TRANSISTOR	
Q104		2SA933S(Q,R)	TRANSISTOR	
Q107, 108		2SC1740S(Q,R)	TRANSISTOR	
Q107, 108		2SC3311A(Q,R)	TRANSISTOR	
Q201		2SC1740S(Q,R)	TRANSISTOR	
Q201		2SC3311A(Q,R)	TRANSISTOR	
Q202		2SA1309A(Q,R)	TRANSISTOR	
Q202		2SA933S(Q,R)	TRANSISTOR	
Q203		2SC1740S(Q,R)	TRANSISTOR	
Q203		2SC3311A(Q,R)	TRANSISTOR	
Q301, 302		2SD1302(S,T)	TRANSISTOR	
Q303		2SA1309A(Q,R)	TRANSISTOR	
Q303		2SA933S(Q,R)	TRANSISTOR	
Q304		2SC2003(L,K)	TRANSISTOR	
Q305		2SD1266(Q,P)	TRANSISTOR	
Q307		2SA1309A(Q,R)	TRANSISTOR	
Q307		2SA933S(Q,R)	TRANSISTOR	
Q308		2SC1740S(Q,R)	TRANSISTOR	
Q308		2SC3311A(Q,R)	TRANSISTOR	
DT1	3B		FM FRONT-END ASSY	
T-85L TUNER UNIT (X05-4142-71)				
C1 -4		CK45FF1H103Z	CERAMIC	0.010UF Z
C5		CE04KV1C470K	ELECTRO	470UF 16WV
C6		CY10769-05	CERAMIC	0.01UF Z
C7		CK45FF1H103Z	CERAMIC	0.010UF Z
C8		CE04KV1HR47H	ELECTRO	0.470UF 50WV
C9		CC45FSL1H101J	CERAMIC	100PF J
C10		CE04KV1H2R2M	ELECTRO	2.2UF 50WV
C11		CE04KV1H3R3M	ELECTRO	3.3UF 50WV
C12		CK45FF1H103Z	CERAMIC	0.010UF Z
C13		CQ92FM1H153J	MYLAR	0.015UF J
C14, 15		CK45FF1H223Z	CERAMIC	0.022UF Z
C16		CE04KV1V477M	ELECTRO	4.7UF 35WV
C17		CK45FF1H223Z	CERAMIC	0.022UF Z
C18		CE04KV1V100M	ELECTRO	10UF 16WV
C19		CK45FF1H223Z	CERAMIC	0.022UF Z
C20		CE04KV1V100M	ELECTRO	10UF 16WV
C21		CE04KV1C101K	ELECTRO	100UF 16WV
C22		CK45FB1H471K	CERAMIC	470PF K
C23		CP92FV1H473J	MYLAR	0.470UF J
C24		CK95FCH1H471J	CERAMIC	470PF J
C25, 26		CK45FB1H102K	CERAMIC	100PF K
C27, 28		CQ92FM1H4723	MYLAR	4700PF J
C29, 30		CE04KV1H2R2M	ELECTRO	2.2UF 50WV
C31		CK45FF1H103Z	CERAMIC	0.010UF Z
C32		CE04KV1HR47H	ELECTRO	0.470UF 50WV
C33		CE04KV1H3R3M	ELECTRO	3.3UF 50WV
C34		CE04KV1H2R2M	ELECTRO	2.2UF 50WV
C35		CK45FB1H471K	CERAMIC	470PF K
C36		CQ92FM1H152J	MYLAR	1500PF J

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components

No.5

X New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名 / 規格	Desti- nation 仕向
S101	2B	S31-2094-05	SLIDE SWITCH 05-EK, CH. SPACE)	M
S201-230	2A, 2B	S40-1064-05	PUSH SWITCH	
D2		HSS104	DIODE	
D2		1SS133	DIODE	
D3		HZ85, 1N(B2)	ZENER DIODE	
D3		R05, 1ES(B2)	ZENER DIODE	
D4		HSS104	DIODE	
D4		1SS133	DIODE	
D111, 112		HSS104	DIODE	
D111, 112		1SS133	DIODE	
D201, 202		HSS104	DIODE	
D201, 202		1SS133	DIODE	
D203		HZ83, 9N(B2)	ZENER DIODE	
D203		R03, 9ES(B2)	ZENER DIODE	
D204		HSS104	DIODE	
D204		1SS133	DIODE	
D206-212		HSS104	DIODE	
D206-212		1SS133	DIODE	
D213		HSS104	DIODE	
D213		1SS133	DIODE	
D214		HSS104	DIODE	
D214		1SS133	DIODE	
D216-219		HSS104	DIODE	
D216-219		1SS133	DIODE	
D220		HZ86, 2N(B2)	ZENER DIODE	
D220		R06, 2ES(B2)	ZENER DIODE	
D221		HSS104	DIODE	
D221		1SS133	DIODE	
D222		HSS104	DIODE	
D222		1SS133	DIODE	
D223		HSS104	DIODE	
D223		1SS133	DIODE	
D301		HZ83, 3N(B2)	ZENER DIODE	
D301		R03, 3ES(B2)	ZENER DIODE	
D302		HZ86, 2N(B2)	ZENER DIODE	
D302		R06, 2ES(B2)	ZENER DIODE	
D303		HZ815N(B)	ZENER DIODE	
D303		R015ES(B)	ZENER DIODE	
D304		S5468B	DIODE	
D304		1SR139-100	DIODE	
D307-312		S5468B	DIODE	
D307-312		1SR139-100	DIODE	
D313-316		HSS104	DIODE	
D313-316		1SS133	DIODE	
D316, 319		S568B	DIODE	
ED1	1A	1SR139-100	FLUORESCENT INDICATOR TUBE	
IC1		LA1265	IC(FM/AM TUNER)	
IC2		LA7470	IC(FM MPX)	
IC3		LM7001	IC(PLL FREQUENCY SYNTHESIZER)	
IC201		CP50216-104S	IC(MICROPROCESSOR)	
IC202		BA10393	IC(DUAL COMPALATOR)	
Q1		2SC1923(R,0)	TRANSISTOR	
Q2		2SC1845(F, E)	TRANSISTOR	

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

△ indicates safety critical components

T-85/85L

## PARTS LIST

No.8

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
L1		L30-0488-05	AM IFT		
L2		L30-0439-25	(DISCRIMINATOR)		
L3		L40-1021-14	SMALL FIXED INDUCTOR(1.0mH, K)		
L4		L40-5625-29	SMALL FIXED INDUCTOR(5.6mH, J)		
L5		L40-6825-29	SMALL FIXED INDUCTOR(6.8mH, J)		
L6 .7		L79-0790-05	LC FILTER		
L8		L40-1091-17	SMALL FIXED INDUCTOR(1.0uH)		
L104		L39-0195-05	COMBINATION COIL		
L105		L39-0192-05	COMBINATION COIL		
L106		L40-1091-17	SMALL FIXED INDUCTOR(1.0uH)		
L201, 202		L40-1091-17	SMALL FIXED INDUCTOR(1.0uH)		
X201		L77-1178-05	CRYSTAL RESONATOR(4.194504MHz)		
CP201		R90-0487-05	MULTI-COMP 47KX4 J 1/6W		
CP202		R90-0804-05	MULTI-COMP 47KX6 J 1/4W		
R32		RS140830221J	FL-PROOF RS 220 J 2W		
R306		RS140830221J	FL-PROOF RS 220 J 1W		
R307, 308		RS140830151J	FL-PROOF RS 150 J 2W		
R322		RS140830688J	FL-PROOF RS 6.8 J 2W		
R323		RS140830151J	FL-PROOF RS 150 J 1W		
R324		RS140830222J	FL-PROOF RS 2.2K J 1W		
R329		RS140830102J	FL-PROOF RS 1.0K J 2W		
R330-335		RS140830121J	FL-PROOF RS 120 J 2W		
VR1		R12-3130-05	TRIMMING POT. 33K (FM T-LEVEL)	F	
VR2		R12-3687-05	TRIMMING POT. 33K (FM T-LEVEL)	F	
VR2, 3		R12-1089-05	TRIMMING POT. 4.7K (VCO AM T-L)	F	
VR4		R12-1619-05	TRIMMING POT. 4.7K (VCO AM T-L)	F	
VR4		R12-5060-05	TRIMMING POT. 220K (SEPARATION)	F	
VR4		R12-5652-05	TRIMMING POT. 220K (SEPARATION)	F	
S201-230	2A, 2B	S40-1064-05	PUSH SWITCH		
D1, 2		HSS104	DIODE		
D1, 2		1N4148	DIODE		
D1, 2		1SS133	DIODE		
D3		BXSS-C5V1	ZENER DIODE		
D3		HZSS-1N(B2)	ZENER DIODE		
D3		RD5-1ES(B2)	ZENER DIODE		
D4		HSS104	DIODE		
D4		1N4148	DIODE		
D4		1SS133	DIODE		
D101		HSS104	DIODE		
D101		1N4148	DIODE		
D101		1SS133	DIODE		
D103		HSS104	DIODE		
D103		1N4148	DIODE		
D103		1SS133	DIODE		
D109-116		HSS104	DIODE		
D109-116		1N4148	DIODE		
D109-116		1SS133	DIODE		
D201, 202		HSS104	DIODE		
D201, 202		1N4148	DIODE		
D201, 202		1SS133	DIODE		
D201, 202		BXSS-C3V9	ZENER DIODE		
D203		HZSS-9N(B2)	ZENER DIODE		

F:FRANCE MADE

No.7

Ref. No. 参照番号	Address 位置	Parts No. 部品番号	Description 部品名/規格	Desti- nation 仕向	Re- marks 備考
C37		CC92FM1H132J	MYLAR 1300PF J		
C38		CC45FSL1H121J	CERAMIC 120PF J		
C39		CC45FSL1H271J	CERAMIC 270PF J		
C40		CC45FSL1H221J	CERAMIC 220PF J		
C41, 42		CC45FCH1H220J	CERAMIC 22PF J		
C43		CK45FB1H471K	CERAMIC 470PF K		
C44		CK45FE1H103Z	CERAMIC 0.010UF Z		
C47		C91-0769-05	CERAMIC 0.01UF J		
C48		CF92RV1H273J	MF 0.022UF J		
C49		CE04KV1H010M	ELECTRO 1.0UF 50V		
C50		CE04KV1H010M	ELECTRO 47UF 16V		
C51		CE04KV1H010M	ELECTRO 1.0UF 50V		
C52		CE04KV1H010M	ELECTRO 47UF 10V		
C53, 54		CE04KV1H010M	ELECTRO 47UF 16V		
C56		CC45FSL1H220J	CERAMIC 22PF J		
C106		CE04KV1H010M	ELECTRO 47UF 16V		
C107, 108		CK45FE1H223Z	CERAMIC 0.022UF Z		
C109, 110		C91-0085-05	CERAMIC 0.022UF N		
C111-113		CK45FE1H223Z	CERAMIC 0.022UF Z		
C114		C91-0085-05	CERAMIC 0.022UF N		
C137		C91-0769-05	CERAMIC 0.01UF K		
C170		C91-0745-05	CERAMIC 100PF K		
C171		C91-0737-05	CERAMIC 47PF J		
C201, 202		CC45FCH1H220J	CERAMIC 22PF J		
C203		CE04KV1H02R2M	ELECTRO 2.2UF 50V		
C204		CE04KV0J471M	ELECTRO 470UF 6.3V		
C205		C91-0085-05	CERAMIC 0.022UF N		
C207		C90-1827-05	BACKUP 0.047F 5.5V		
C208		C90-1332-05	MF-ELEC 10UF 25V		
C213		CF92FV1H04J	MF 0.10UF J		
C235		C91-0085-05	CERAMIC 0.022UF N		
C301		CE04KV1H010M	ELECTRO 1.0UF 50V		
C302		CE04KV1H010M	ELECTRO 470UF 10V		
C303		CE04KV1H010M	ELECTRO 470UF 16V		
C304		CE04KV1H221H	ELECTRO 220UF 25V		
C309		CE04KV1H010M	ELECTRO 100UF 50V		
C310		CE04KV1H221H	ELECTRO 220UF 50V		
C311		CE04KV1H010M	ELECTRO 100UF 50V		
C312		CE04KV1V222M	ELECTRO 2200UF 35V		
C314		CE04KV1H331M	ELECTRO 330UF 50V		
C315, 316		C91-0749-05	CERAMIC 220PF K		
C317		CK45FE1H103Z	CERAMIC 0.010UF Z		
C318, 319		CC45FSL1H221J	CERAMIC 220PF J		
C320		CE04KV1V100M	ELECTRO 10UF 35V		
C321		CE04KV1V220M	ELECTRO 22UF 35V		
C323		CE04KV1H010M	ELECTRO 470UF 10V		
C324		CK45FE1H103Z	CERAMIC 0.010UF Z		
C325, 326		C90-1839-05	NP-ELEC 120UF 42W		
614	2B	E30-2667-05	CORD WITH CONNECTOR(VH3)		
J1	3B	E20-0321-05	LOCK TERMINAL BOARD(ANTENNA)		
J2	2B	E13-0235-05	PHONE JACK (5P)(OUTPUT)		
J3	2B	E08-0312-05	RECTANGULAR RECEPTACLE(S.CONT)		
CF1, 2		L72-0536-05	CERAMIC FILTER		
CF3		L72-0096-05	CERAMIC FILTER		

A indicates safety critical components.

x New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

x New Parts

Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
Teile ohne Parts No. werden nicht geliefert.

L:Scandinavia K:USA P:Canada  
Y:PX(Far East, Hawaii) T:England E:Europe  
Y:AFES(Europe) X:Australia M:Other Areas

A indicates safety critical components.

## PARTS LIST

**No. 10**

✕ New Parts  
 Parts without Parts No. are not supplied.  
 Les articles non mentionnés dans le Parts No. ne sont pas fournis.  
 Teile ohne Parts No. werden nicht geliefert.

**\* New Parts**

**x New Parts**  
Parts without Parts No. are not supplied.  
Les articles non mentionnés dans le Parts  
Teile ohne Parts No. werden nicht geliefert.

**X New Parts**


No. 9.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Destination 仕向	Remarks 備考
Q102-104			25A933S(Q, R)	TRANSISTOR	F	
Q105, 106			JC501(P, Q)	TRANSISTOR	F	
Q105, 106			25C1740S(Q, R)	TRANSISTOR	F	
Q105, 106			25C3311A(Q, R)	TRANSISTOR	F	
Q201			JC501(P, Q)	TRANSISTOR	F	
Q201			25C1740S(Q, R)	TRANSISTOR	F	
Q201			25C3311A(Q, R)	TRANSISTOR	F	
Q203			JC501(P, Q)	TRANSISTOR	F	
Q203			25C1740S(Q, R)	TRANSISTOR	F	
Q203			25C3311A(Q, R)	TRANSISTOR	F	
Q301, 302			25D1302(S, T)	TRANSISTOR	F	
Q303			JA101(P, Q)	TRANSISTOR	F	
Q303			25A1309A(Q, R)	TRANSISTOR	F	
Q303			25A933S(Q, R)	TRANSISTOR	F	
Q304			25C2003(L, K)	TRANSISTOR	F	
Q305			25D1266(Q, P)	TRANSISTOR	F	
Q307			JA101(P, Q)	TRANSISTOR	F	
Q307			25A1309A(Q, R)	TRANSISTOR	F	
Q307			25A933S(Q, R)	TRANSISTOR	F	
Q308			JC501(P, Q)	TRANSISTOR	F	
Q308			25C1740S(Q, R)	TRANSISTOR	F	
Q308			25C3311A(Q, R)	TRANSISTOR	F	
DT1	3B		W02-1041-05	PM FRONT-END ASSY		

F:FRANCE MADE

K:USA  
T:England  
X:Australia

L:Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AAFES(Europe)

 indicates safety critical components.

No. 9.

Ref. No. 参照番号	Address 位置	New Parts 新部品	Parts No. 部品番号	Description 部品名 / 規格	Destination marks 仕向備考
D203			RD3-9ES(B2)	ZENER DIODE	F
D204			HSS104	DIODE	F
D204			1N4148	DIODE	F
D204			1SS133	DIODE	F
D206-213			HSS104	DIODE	F
D206-213			1N4148	DIODE	F
D206-213			1SS133	DIODE	F
D215-219			HSS104	DIODE	F
D215-219			1N4148	DIODE	F
D220			BZX55-C6V2	DIODE	F
D220			HZ56-2N(B2)	ZENER DIODE	F
D220			RD6-2ES(B2)	ZENER DIODE	F
D221			HSS104	DIODE	F
D221			1N4148	DIODE	F
D221			1SS133	DIODE	F
D223			HSS104	DIODE	F
D223			1N4148	DIODE	F
D223			1SS133	DIODE	F
D301			BZX55-C3V3	ZENER DIODE	F
D301			HZ53-3N(B2)	ZENER DIODE	F
D301			RD3-3ES(B2)	ZENER DIODE	F
D302			BZX55-C6V2	DIODE	F
D302			HZ56-2N(B2)	ZENER DIODE	F
D302			RD6-2ES(B2)	ZENER DIODE	F
D303			BZX55-C15	DIODE	F
D303			HZ155N(B)	ZENER DIODE	F
D303			RD15ES(B)	ZENER DIODE	F
D304			SS688B	DIODE	F
D304			1N4004	DIODE	F
D304			1SR139-100	DIODE	F
D307-312			SS688B	DIODE	F
D307-312			1N4004	DIODE	F
D307-312			1SR139-100	DIODE	F
D313-316			HSS104	DIODE	F
D313-316			1N4148	DIODE	F
D313-316			1SS133	DIODE	F
D318-319			SS688B	DIODE	F
D318-319			1N4004	DIODE	F
D318-319			1SR139-100	DIODE	F
ED1	1A		FIPI1AH7R	FLUORESCENT INDICATOR TUBE	
IC1			AN1265	IC(FM/AM TUNER)	
IC2			AN740	IC(FM MPX)	
IC3			LM7001	IC(PLL FREQUENCY SYNTHESIZER)	
IC201		*	KXP50216-104S	IC(MICROPROCESSOR)	
IC202			BA10393	IC(DUAL COMPALATOR)	F
Q1			2SC1923(P, Ø)	TRANSISTOR	
Q2			2SC1845(F, E)	TRANSISTOR	
Q3			1C501(P, Ø)	TRANSISTOR	
Q3			2SC1740S(Q, R)	TRANSISTOR	
Q3			2SC3311A(Q, R)	TRANSISTOR	
Q5			2SK163(L, H)	FET	
Q5			2SK364(GR, BL)	FET	
Q102-104			JA101(P, Ø)	TRANSISTOR	F
Q102-104			2SA1309A(Q, R)	TRANSISTOR	

F:FRANCE MADE

X:USA  
 T:England  
 X:Australia

L-Scandinavia  
Y:PX(Far East, Hawaii)  
Y:AFES(Europe)

**⚠** indicates safety critical components.

# T-85/85L

## SPECIFICATIONS

### T-85

#### FM tuner section

Tuning frequency range .....87.5 MHz~108 MHz

Usable sensitivity (IHF at 75  $\Omega$ ).....0.95  $\mu$ V/10.8 dBf

Total harmonic distortion (at 1 kHz, 65 dBf input)

MONO .....0.4%

STEREO .....0.5%

Signal to noise ratio (at 1 kHz, 65 dBf input)

MONO .....78 dB

STEREO .....72 dB

Stereo separation (at 1 kHz).....40 dB

Alternate channel selectivity

( $\pm 400$  kHz).....50 dB

Frequency response

(30 Hz~15 kHz).....+0.5 dB, -3.5 dB

Output level/Impedance

(at 75 kHz dev.).....0.6 V/3.3 k $\Omega$

#### AM tuner section

Tuning frequency range

531 kHz~1,602 kHz.....9 kHz step

530 kHz~1,610 kHz.....10 kHz step

Usable sensitivity .....14  $\mu$ V/500  $\mu$ V/m

Signal to noise ratio

(at 30% mod. 1 mV Input).....48 dB

#### General

Dimension .....W: 360 mm

H: 89 mm

D: 353 mm

Weight.....3.0 kg

### T-85L

#### FM tuner section

Tuning frequency range .....87.5 MHz~108 MHz

Usable sensitivity (DIN at 75  $\Omega$ )

MONO .....0.6  $\mu$ V

STEREO .....22  $\mu$ V

Total harmonic distortion (DIN at 1 kHz, 65.2 dBf input)

MONO .....0.2%

STEREO .....0.8%

Signal to noise ratio (DIN weighted at 1 kHz, 65.2 dBf input)

MONO .....68 dB

STEREO .....63 dB

Stereo separation (DIN at 1 kHz)....42 dB

Alternate channel selectivity

(DIN  $\pm 300$  kHz).....64 dB

Frequency response

(30 Hz~15 kHz).....+0.5 dB, -3.5 dB

Output level/Impedance

(at 75 kHz dev.).....0.6 V/3.3 k $\Omega$

#### MW tuner section

Tuning frequency range .....531 kHz~1,602 kHz

Usable sensitivity .....13  $\mu$ V/500  $\mu$ V/m

Signal to noise ratio

(at 30% mod. 1 mV input).....49 dB

#### LW tuner section

Tuning frequency range .....153 kHz~281 kHz

Usable sensitivity .....20  $\mu$ V

Signal to noise ratio

(at 30% mod. 1 mV input).....47 dB

#### General

Dimension .....W: 360 mm

H: 89 mm

D: 353 mm

Weight.....3.0 kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison, les spécifications sont sujettes à modifications sans préavis.

KENWOOD strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

#### Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

## KENWOOD CORPORATION

Shionogi Shibuya Building, 17-5, 2-chome Shibuya, Shibuya-ku, Tokyo 150, Japan

#### KENWOOD U.S.A. CORPORATION

2201 East Dominguez Street, Long Beach, CA 90810,  
550 Clark Drive, Mount Olive, NJ 07828, U.S.A.

#### KENWOOD ELECTRONICS CANADA INC.

P.O. BOX 10757, 959 Gana Court, Mississauga, Ontario, Canada L4T 4C2

#### TRIO-KENWOOD U.K. LTD.

KENWOOD House, Dwight Road, Watford, Herts., WD1 8eb United Kingdom

#### KENWOOD ELECTRONICS BENELUX N.V.

Mechelsesteerweg 418 B-1930 Zaventem, Belgium

#### KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker-Str. 15, 6056 Heusenstamm, Germany

#### TRIO-KENWOOD FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

#### KENWOOD LINEAR S.p.A.

20125, MILANO-VIA ARBE, 50, ITALY

#### KENWOOD ELECTRONICS AUSTRALIA PTY, LTD.

P.O. BOX 504, 8 Figtree Drive, Australia Centre, Homebush N.S.W. 2140, Australia

#### KENWOOD & LEE ELECTRONICS, LTD.

Wang Kee Building, 4th Floor, 34-37, Connaught Road, Central, Hong Kong